

# Andrew Hotchkiss

## Education

- B.S., Davidson College, Davidson, NC; Biology, 1995.
- Ph.D., North Carolina State University, Raleigh, NC; 2001.

## Professional Experience

- 2006-Present: Postdoctoral Trainee, EPA.

## Professional Societies

- Triangle Consortium for Reproductive Biology
- North Carolina Society of Toxicology

## Professional Activities

- Ad-hoc Reviewer: 15 journals.
- Co-organizer, EPA Endocrine Disrupting Chemicals Discussion Group.

## Invited Lectures/Symposia

- Department of Biology, Alabama State University, Montgomery, AL. Hormonally Active Chemicals in the Environment. 2006.
- Research Triangle Institute, Research Triangle Park, NC. Environmental Influences on Reproduction and Behavior in Rodents. 2006.
- 18th Workshop of the International School of Ethology, Erice, Italy. Androgens and Environmental Antiandrogens Affect Reproductive Development and Play Behavior in the Sprague-Dawley rat. Impact of Endocrine Disruptors on Brain Development and Behavior. 2002.

## Selected Publications

Hotchkiss AK, Nelson RJ. Melatonin: Immunomodulatory Signal. In: *Melatonin: From Molecules to Therapy*, Chapter 13. Eds: S.R. Pandi-Perumal and D.P. Cardinali. NovaScience Publishers, New York. pp. 227-245.

Hotchkiss AK, Lambright CS, Ostby JS, Parks-Saldutti L, Vandenberg JG, Gray LE. 2007. Prenatal testosterone exposure permanently masculinizes anogenital distance, nipple development, and reproductive tract morphology in female Sprague-Dawley rats. *Toxicol Sci.* 96:335-45. [Abstract](#)

Hotchkiss AK, Nelson RJ. 2007. An environmental androgen, 17-beta-trenbolone, affects delayed-type hypersensitivity and reproductive tissues in male mice. *J Toxicol Environ Health A*. 70:138-40. [Abstract](#)

Prendergast BJ, Hotchkiss AK, Wen J, Horton TH, Nelson RJ. 2006. Refractoriness to short day lengths augments tonic and gonadotrophin-releasing hormone-stimulated lutenising hormone secretion. *J Neuroendocrinol*. 18:339-48. [Abstract](#)

Weil ZM, Hotchkiss AK, Gatien Hotchkiss ML, Pieke-Dahl S, Nelson RJ. 2006. Melatonin receptor (MT1) knockout mice display depression-like behaviors and deficits in sensorimotor gating. *Brain Res Bull*. 68:425-9. [Abstract](#)

Gatien Hotchkiss ML, Hotchkiss AK, Dhabhar FS, Nelson RJ. 2005. Skeleton photoperiods alter delayed-type hypersensitivity responses and reproductive function of Siberian hamsters (*phodopus sungorus*). *J Neuroendocrinol*. 17:733-9. [Abstract](#)

Hotchkiss AK, Vandenberg JG. 2005. Anogenital distance index of mice (*mus musculus domesticus*): An analysis. *Contemporary topics in laboratory animal science*. 44:46. [Abstract](#)

Pyter LM, Hotchkiss AK, Nelson RJ. 2005. Photoperiod-induced differential expression of angiogenesis genes in testes of adult peromyscus leucopus. *Reproduction*. 129:201-9. [Abstract](#)

Hotchkiss AK, Pyter LM, Gatien Hotchkiss ML, Wen JC, Milman HA, Nelson RJ. 2005. Aggressive behavior increases after termination of chronic sildenafil treatment in mice. *Physiol Behav*. 83:683-8. [Abstract](#)

Gray LE, Wilson VS, Stoker TE, Lambright CS, Furr JR, Noriega NC, Hartig PC, Cardon MC, Rosen MB, Ankley GT, Hotchkiss AK, Orlando EF, Guilette LJ, Kelce W. 2004. Environmental androgens and antiandrogens: An expanding chemical universe. In: *Endocrine Disruptors*. Ed.: R.Naz, CRC Press, Boca Raton, FL.

Wen JC, Hotchkiss AK, Demas GE, Nelson RJ. 2004. Photoperiod affects neuronal nitric oxide synthase and aggressive behaviour in male Siberian hamsters (*phodopus sungorus*). *J Neuroendocrinol*. 16:916-21. [Abstract](#)

Padgett DA, Hotchkiss AK, Pyter LM, Nelson RJ, Yang E, Yeh PE, Litsky M, Williams M, Glaser R. 2004. Epstein-Barr virus-encoded dUTPase modulates immune function and induces sickness behavior in mice. *J Med Virol*. 74:442-8. [Abstract](#)

Gatien Hotchkiss ML, Hotchkiss AK, Neigh GN, Dhabhar FS, Nelson RJ. 2004. Immune and stress responses in C57BL/6 and C3H/HEN mouse strains following photoperiod manipulation. *Neuro Endocrinol Lett*. 25:267-72. [Abstract](#)

Hotchkiss AK, Parks-Saldutti LG, Ostby JS, Lambright CS, Furr JR, Vandenberg JJ, Gray LE. 2004. A mixture of the "antiandrogens" linuron and butyl benzyl

phthalate alters sexual differentiation of the male rat in a cumulative fashion. Biol Reprod. 71:1852-1861. [Abstract](#)

Neigh GN-McCandless, Bilbo SD, Hotchkiss AK, Nelson RJ. 2004. Exogenous pyruvate prevents stress-evoked suppression of mitogen-stimulated proliferation. Brain Behav Immun. 18:425-33. [Abstract](#)

Prendergast BJ, Hotchkiss AK, Bilbo SD, Nelson RJ. 2004. Peripubertal immune challenges attenuate reproductive development in male Siberian hamsters (*phodopus sungorus*). Biol Reprod. 70:813-20. [Abstract](#)

Hotchkiss AK, Pyter LM, Gatien Hotchkiss ML, Wen JC, Milman HA, Nelson RJ. 2005. Aggressive behavior increases after termination of chronic sildenafil treatment in mice. Physiol Behav. 83:683-8. [Abstract](#)

Prendergast BJ, Hotchkiss AK, Nelson RJ. 2003. Photoperiodic regulation of circulating leukocytes in juvenile Siberian hamsters: Mediation by melatonin and testosterone. J Biol Rhythms. 18:473-80. [Abstract](#)

Kriegsfeld LJ, Hotchkiss AK, Demas GE, Silverman AJ, Silver R, Nelson RJ. 2003. Brain mast cells are influenced by chemosensory cues associated with estrus induction in female prairie voles (*microtus ochrogaster*). Horm Behav. 44:377-84. [Abstract](#)

Bilbo SD, Hotchkiss AK, Chiavegatto S, Nelson RJ. 2003. Blunted stress responses in delayed type hypersensitivity in mice lacking the neuronal isoform of nitric oxide synthase. J Neuroimmunol. 140:41-8. [Abstract](#)

Hotchkiss AK, Ostby JS, Vandenberg JG, Gray LE. 2003. An environmental antiandrogen, vinclozolin, alters the organization of play behavior. Physiol Behav. 79:151-6. [Abstract](#)

Prendergast BJ, Hotchkiss AK, Nelson RJ. 2003. Photoperiodic regulation of circulating leukocytes in juvenile Siberian hamsters: Mediation by melatonin and testosterone. J Biol Rhythms. 18:473-80. [Abstract](#)

Hotchkiss AK, Nelson RJ. 2002. Melatonin and immune function: Hype or hypothesis? Crit Rev Immunol. 22:351-71. [Abstract](#)

Hotchkiss AK, Ostby JS, Vandenberg JG, Gray LE. 2003. An environmental antiandrogen, vinclozolin, alters the organization of play behavior. Physiol Behav. 79:151-6. [Abstract](#)

Wolf CJ, Hotchkiss A, Ostby JS, LeBlanc GA, Gray LE. 2002. Effects of prenatal testosterone propionate on the sexual development of male and female rats: A dose-response study. Toxicol Sci. 65:71-86. [Abstract](#)